

SUSANA MARTINEZ Governor

JOHN A. SANCHEZ Lieutenant Governor

NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

2905 Rodeo Park Drive East, Building 1 Santa Fe, New Mexico 87505-6303 Phone (505) 476-6000 Fax (505) 476-6030

www.nmenv.state.nm.us



DAVE MARTIN Secretary

RAJ SOLOMON, P.E. Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

July 29, 2011

George J. Rael Assistant Manager U.S. Department of Energy National Nuclear Security Administration Los Alamos Site Office 3747 West Jemez Rd, MSA316 Los Alamos, NM 87544 Michael J. Graham Associate Director Environmental Programs Los Alamos National Security, L.L.C. P.O. Box 1663, MS M991 Los Alamos, NM 87545

RE: APPROVAL WITH MODIFICATIONS

COMPLETION REPORT FOR REGIONAL AQUIFER WELL R-50

LOS ALAMOS NATIONAL LABORATORY

EPA ID#NM0890010515

HWB-LANL-10-060

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) is in receipt of the United States Department of Energy (DOE) and Los Alamos National Security, L.L.C.'s (collectively, the Permittees) document entitled *Completion Report for Regional Aquifer Well R-50* (Report) dated July, 2010 and referenced by EP2010-0271. NMED hereby approves the Report with the following modifications.

1. Section 3.2, Chronological Drilling Activities for the R-50 Well, Drilling Activities at R-50 Borehole, page 4:

As noted in this section, a drive shoe and a stainless-steel weight from a tagline were inadvertently left down-hole at approximately 555 and 570 feet below ground surface, respectively. An attempt was made to remove the shoe and weight by milling followed by drilling with a reaming bit and a tricone bit. As stated in this section, "Stainless-steel shavings were observed in the discharge, and the

milling tool was removed from the hole, but the field crew was not optimistic that the entire piece of stainless-steel tagline weight had been cleared from the borehole". It is unlikely that the shavings from the shoe and weight migrated much further down-hole or to the regional water table. However, in order to support the representativeness of groundwater samples collected at R-50, the Permittees must monitor the trace-element hydrogeochemical conditions with attention to impacts from the possible presence of metal shavings from the shoe and/or stainless-steel weight.

No revision of the Report is necessary. Please call Michael Dale of my staff at (505) 661-2673 if you have questions.

Sincerely,

John E. Kieling Acting Chief

Hazardous Waste Bureau

cc:

- D. Cobrain, NMED HWB
- N. Dhawan, NMED HWB
- J. Kulis, NMED HWB
- M. Dale, NMED HWB
- T. Skibitski, NMED DOE OB
- S. Yanicak, NMED DOE OB, MS M894
- B. Olson, NMED GWQB
- L. King, EPA 6PD-N
- M. Everett, EP-ET, MS M992
- T. Ball, EP-CAP, MS M992
- H. Shen, DOE-LASO, MS A316
- P. Maggiore, DOE-LASO, MS A316

File: Reading and LANL 2011 – R-50 Groundwater LANL-10-060